Maysa Ammouri

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Education

Feb. 2021	PhD in Industrial Engineering TU Dortmund University, Germany IT in Production and Logistics Department Supervisor: Prof. Markus Rabe Dissertation title: "Approaches to Enhance the Performance of Simheuristic Methods in the Optimisation of Multi-echelon Logistics Distribution Networks" The defence was on 17.2.2021: excellent
June 2009	M.Sc. in Industrial Engineering University of Jordan, Jordan Supervisor: Dr. Sameh Shihabi Thesis title: "Constructing a Model for Stock Price Prediction that Combines Nested Partition and Artificial Neural Network" GPA: 3.86 out of 4.0 (Excellent)
Feb. 2004	B.Sc. in Industrial Engineering University of Jordan, Jordan Thesis title: "Value Engineering Applied to Aluminum Windows" GPA: 3.81 out of 4.0 (Excellent)

Research Interest

Optimisation, simheuristics, simulation, x-heuristics

Research Experience

July 2021 – Feb 2022	Internet Computing and Systems Optimization Universitat Oberta de Catalunya Postdoc position
Feb. 2021 – June 2021	IT in Production and Logistics Department TU Dortmund University, Germany Researcher as in a postdoc position
Oct. 2016 – Feb. 2021	IT in Production and Logistics Department TU Dortmund University, Germany Optimising logistics distribution networks using a simheuristic approach, in which a discrete event simulation is integrated with an evolutionary algorithm

April 2008 – Sep. 2016 — Industrial Engineering Department
German Jordanian University (GJU), Jordan

Used discrete event simulation to study warehouse operations and artificial neural network to predict the mechanical properties of polymers.

Teaching Experience

Oct. 2016 – June 2020 — PhD Candidate
IT in Production and Logistics Department
TU Dortmund University, Germany

Taught specialised laboratory "Fachlabor IT zur Fabrikautomation".

Oct. 2010 – Sep. 2016 — Full-time Lecturer
Industrial Engineering Department
German Jordanian University, Jordan

Taught several courses in the industrial engineering department, such as
- Applied Statistics
- Work Measurements and Standards
- Simulation
- Ergonomics
- Engineering economics

April 2008 – Sep. 2010 — Teaching Assistant
Industrial Engineering Department
German Jordanian University, Jordan

Taught and supervised several laboratories, such as
- Work Measurements and Standards
- Simulation
- Ergonomics

Languages

- Czech and Arabic languages as mother languages
- English
- German for basic communication

Skills

- Computer Skills in using Minitab, Arena, ProModel
- Programming skills
- Planning meeting.

Publications

Rabe, M.; Ammouriova, M.; Schmitt, D.; Dross, F.: Simheuristics Approaches for Efficient Decision-Making Support in Materials Trading Networks. Algorithms 14(2021), article 23.

Rabe, M.; Ammouriova, M.: Constructing Action Plans Based on Correlation between Sequential Actions and their Performance in Logistics Distribution Networks. In:

Proceedings of the 13th International Conference of Research in Logistics and Supply Chain Management, Le Havre, France, 7–9 October. 2020.

Rabe, M. Ammouriova, M.; Schmitt, D.; Chicaiza-Vaca, J.: An Approach for Reducing the Search Space for Simheuristics Applications in Logistics Networks in Trading. In: Putz, M.; Schlegel, A. (eds.): Simulation in Produktion und Logistik, 2019. Auerbach: Verlag Wissenschaftliche Skripten 2019, pp. 335–344.

Rabe, M.; Ammouriova, M., Schmitt, D.: Utilising Domain-specific Information for the Optimisation of Logistics Networks. In: Rabe, M.; Juan, A.A.; Mustafee, N.; Skoogh, A.; Jain, S.; Johansson, B. (eds.): Proceedings of the 2018 Winter Simulation Conference. Piscataway: IEEE, 2018, pp. 2873– 2884.

Rabe, M.; Schmitt, D.; Ammouriova, M.: Improving the Performance of a Logistics Assistance System for Materials Trading Networks by Grouping Similar Actions. In: Rabe, M.; Juan, A.A.; Mustafee, N.; Skoogh, A.; Jain, S.; Johansson, B. (eds.): Proceedings of the 2018 Winter Simulation Conference. Piscataway: IEEE, 2018, pp. 2861–2872.

Rabe, M.; Schmitt, D.; Ammouriova, M.: Utilising Domain-specific Information in Decision Support for Logistics Networks. In: Freitag, M.; Kotzab, H.; Pannek, J. (Eds.): Dynamics in Logistics: Proceedings of the 6th International Conference LDIC 2018, Bremen, Germany. Cham, Switzerland: Springer International Publishing, 2018, pp. 413–417.

Altarazi, S.; Ammouri, M.; Hijazi, A.: Artificial Neural Network Modeling to Evaluate Polyvinylchloride Composites' Properties. Computational Materials Science 153 (2018): 1–9.

Altarazi, S.; Ammouri, M.: Concurrent Manual-order-picking Warehouse Design: a Simulation-based Design of Experiments Approach. International Journal of Production Research, 56 (2018) 23, 7103–7121.

Rabe, M.; Dross, F.; Schmitt, D.; Ammouriova, M.; Ipsen, C.: Decision Support for Logistics Networks in Materials Trading Using a Simheuristic Framework and User-generated Action Types. In: Wenzel, S.; Peter, T. (Ed..): Simulation in Produktion und Logistik 2017. Kassel: kassel university press, 2017, pp. 109–118.

Ammouriova, M.; Altarazi, S.: Prediction of Polyvinylchloride Composite Properties Using Artificial Neural Network Modeling. In the 1st International Conference on Industrial, Systems and Manufacturing Engineering, Amman, 11–12 November 2014.

Altarazi, S.; Ammouriova, M.: A Simulation-based Decision-Making Tool for Key Warehouse Resources Selections. Proceedings of World Congress of Engineering 2010, London, 30 June – 2 July 2010.

References

Upon request